

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) A method for manufacturing toroidal transformers, the method comprising:

arranging a coil around a periphery of at least one hollow bobbin of elongated shape and of flexible material;

bending said at least one bobbin, together with said coil, so that ends of the bobbin are brought towards each other, at least one of said bobbin ends defining an opening; and

feeding a ribbon of magnetic material through said opening, so that said ribbon is wound a required amount of tightly packed winding turns inside said bobbin until substantially an entire interior cavity of said bobbin is filled, said ribbon thereby forming a core.

2. (Previously Presented) The method according to claim 1, further comprising:
cutting said ribbon at a desired length after having fed said ribbon through said opening.

3. (Previously Presented) The method according to claim 1, further comprising:

pre-bending said ribbon at one of the end intended to first be fed through said opening.

4. (Previously Presented) The method according to claim 1, further comprising:

providing a part of said ribbon first being fed into the bobbin corresponding to the first wound winding inside said bobbin of said ribbon, on the side facing an inner curvature of the interior hollow cavity of the bobbin, with a layer having a low coefficient of friction for facilitating sliding of said ribbon while being wound inside said bobbin.

5. (Previously Presented) The method according to claim 4, wherein said layer is provided by at least one of an adhesive tape having a first side with low coefficient of friction and a second side being adhesive, a coating with low coefficient of friction, and a fluid.

6. (Previously Presented) The method according to claim 1, further comprising:

arranging a flexible transmission element so that the flexible transmission element is in continuous co-operation with the innermost winding of said ribbon, so as to facilitate sliding of said ribbon while being wound inside said bobbin, thus forming the core.

7. (Previously Presented) The method according to claim 5, further comprising:

arranging a mediating element in connection to said ribbon for mediating co-operation between said flexible transmission element and said ribbon, said mediating element engaging with said flexible transmission element over a distance corresponding to at least a fraction of the innermost winding inside said bobbin of said ribbon.

8. (Cancelled)

9. (Previously Presented) The method according to claim 1, wherein feeding said ribbon of magnetic material through said opening further comprises:

rotating said bent bobbin together with said coil; and
stopping, instantaneously, the rotation of said bent bobbin together with said coil.

10. (Previously Presented) The method according to claim 1, wherein feeding said ribbon of magnetic material through said opening further comprises:

injecting a medium through said opening, thereby creating a variable gap between the outer curvature of the interior of said hollow bobbin, being in a bent position, and said ribbon; and
leading said medium out from said hollow bobbin.

11. (Previously Presented) The method according to claim 1, wherein said method is performed in a magnetic field.

12. (Cancelled)

13. (Previously Presented) A system for manufacturing toroidal transformers, the system comprising:

means for arranging a coil around a periphery of at least one hollow bobbin of elongated shape and of flexible material;

means for bending said at least one bobbin, together with said coil, so that ends of the bobbin are brought towards each other, at least one of said bobbin ends defining an opening; and

means for feeding a ribbon of magnetic material through said opening, so that said ribbon is being wound a required amount of tightly packed winding turns inside said bobbin until substantially an entire interior cavity of said bobbin is filled, said ribbon thereby forming a core.

14. (Previously Presented) A toroidal transformer, comprising:

a hollow bobbin including at least one tube of flexible material having a substantially rectangular shaped interior hollow cross-section, wherein said hollow bobbin extends from a first end to a second end and is bent in such a way that said first end and said second end are brought towards each other;

a coil arranged around a periphery of said bobbin; and

a core formed by a ribbon wound inside the hollow bobbin.

15. (Previously Presented) Use of a toroidal transformer according to claim 14 in an electrical equipment.

16. (Previously Presented) Use of a toroidal transformer according to claim 15
in adaptors.

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